

Docket No. 221519US0PCT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN RE APPLICATION OF: Seiko HIRANO, et al.

SERIAL NO: New US PCT application based on PCT/JP00/06913

GAU:

FILED: Herewith

EXAMINER:

FOR: GENES FOR HEAT RESISTANT ENZYMES OF AMINO ACID BIOSYNTHETIC PATHWAY DERIVED FROM THERMOPHILIC CORYNEFORM BACTERIA

INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Applicant(s) wish to disclose the following information.

REFERENCES

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available English translations of pertinent portions of any non-English language references.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

RELATED CASES

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check is attached in the amount required under 37 CFR §1.17(p).

CERTIFICATION

- ☐ Each item of information contained in this information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

DEPOSIT ACCOUNT

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

  
Norman F. Oblon

Registration No. 24,618

Surinder Sachar

Registration No. 34,423



22850

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 10/01)

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO.  221519US0PCT		SERIAL NO. New US PCT application based on PCT/JP00/06913	
LIST OF REFERENCES CITED BY APPLICANT				APPLICANT  Seiko HIRANO, et al.			
				FILING DATE  Herewith		GROUP	
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	AA	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AB						
<b>FOREIGN PATENT DOCUMENTS</b>							
		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION YES NO		
	AC	7-63383 ✓	07/12/95	JP			No
	AD	4-4887 ✓	01/09/92	JP			No
	AE	5-56782 ✓	03/09/93	JP			No
	AF	92/18635 ✓	10/29/92	WO			No
	AG	94/08016 ✓	04/14/94	WO			No
	AH	96/32484		WO			No
	AI	95/23224 ✓	08/31/95	WO			No
	AJ	10-234371	09/08/98	JP			No
	AK	7-121227 ✓	12/25/95	JP			No
	AL	99/18228 ~	04/15/99	WO			No
	AM	10-165180 ✓	06/23/98	JP			No
	AN	2-291276 ✓	04/18/90	JP			No
	AO	11-196887 ✓	07/27/99	JP			No
	AP	8-66189 ✓	03/12/96	JP			No
	AQ	97/48790 ✓	12/24/97	WO			No
	AR	95/34672 ✓	12/21/95	WO			No
	AS	6-502548 ✓	03/24/94	JP			No
	AT	8-196280 ✓	08/06/96	JP			No
	AU	5-244958 ✓	09/24/93	JP			No
<b>OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	AV	K. TAKAI et al.: "PPC, the gene for phosphoenolpyruvate carboxylase from an extremely thermophilic bacterium, rhodothermus obamensis: cloning, sequencing and overexpression in Escherichia coli" MICROBIOLOGY, vol. 144, no. 5, pages 1423-1434 ✓ 1989					
	AW	D. WERECKE et al.: "Cloning and sequence analysis of the gene encoding isocitrate lyase from Rhodococcus fascians" GENE, vol. 145, no. 1, pages 109-114 ✓ 1994					
	AX	W. JAGER et al.: "A Corynebacterium glutamicum gene encoding a two-domain protein similar to biotin carboxylases and biotin-carboxyl-carrier proteins" ARCH. MICROBIOL., vol. 166, no. 2, pages 977-984 ✓ 1996					
	AY	S. DONADIO et al.: "Erythromycin production in saccharopolyspora erythraea does not require a functional propionyl-CoA carbocylase" MOL. MICROBIOL., vol. 19, pages 977-984 ✓ 1996					Additional References sheet(s) attached
Examiner						Date Considered	
*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Form PTO 1449 (Modified)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY DOCKET NO.  221519US0PCT	SERIAL NO.  New US PCT application based on PCT/JP00/06913
LIST OF REFERENCES CITED BY APPLICANT		APPLICANT  Seiko HIRANO, et al.	
		FILING DATE  Herewith	GROUP
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)			
AZ	E. KUMURA et al.: "Molecular cloning of a novel gene, dtsR, which rescues the detergent sensitivity of a mutant derived from Brevibacterium lactofermentum" BIOSCI. BIOTECHNOL. BIOCHEM., vol. 60, pages 1565-1570 1996		
AAA	A.M. ALVES et al.: "Characterization and phylogeny of the pfp gene of Amycolatopsis methanolica encoding PPI-dependent phosphofructokinase" J. BACTERIOL., vol. 178, pages 149-155 1996		
AAB	A.M.C.R. ALVES et al.: "Identification of ATP-dependent phosphofructokinase as a regulatory step in the glycolytic pathway of the actinomycete Streptomyces coelicolor" APPL. ENVIRON. MICROBIOL., vol. 63, pages 951-956 1997		
AAC	W. KRONEMEYER et al.: "Structure of the gluABCD cluster encoding the glutamate uptake system of corynebacterium glutamicum" J. BACTERIOL., vol. 177, pages 1152-1158 1995		
AAD	C. ROLLIN et al.: "13C-NMR studies of corynebacterium melassecola metabolic pathways" EUR. J. BIOCHEM., vol. 227, no. 1-2, pages 488-493 1995		
AAE	S. HEIN et al.: "Biochemical and molecular characterization of the Alcaligenes eutrophus pyruvate dehydrogenase complex and identification of new type of dihydrolipoamide dehydrogenase" J. BACTERIOL., vol. 176, pages 4394-4408 1994		
AAF	P.E. STEPHENS et al.: "The pyruvate dehydrogenase complex of Escherichia coli K12. Nucleotide sequence encoding the pyruvate dehydrogenase component" EURO. J. BIOCHEM., vol. 133, pages 155-162 1983		
AAG	M.P. RUKLISH et al.: "The functioning of the tricarboxylic acid cycle in Brevibacterium flavum and Micrococcus glutamicus" MIKROBIOLOGIA, vol. 56, no. 5, pages 759-763 1987		
AAH	J.M. MENGAUD et al.: "The major iron-containing protein of Legionella pneumophila is an aconitase homologous with the human iron-responsive element-binding protein" J. BACTERIOL., vol. 175, pages 5666-5676 1993		
AAI	C. PRODROMOU et al.: "The aconitase of Escherichia coli. Nucleotide sequence of the aconitase gene and amino sequence similarity with mitochondrial isopropylmalate isomerases" EUR. J. BIOCHEM., vol. 204, pages 599-609 1992		
AAJ	B.J. EIKMANN et al.: "Cloning, sequence analysis, expression, and inactivation of the Corynebacterium glutamicum icd gene encoding isocitrate dehydrogenase and biochemical characterization of the enzyme" J. BACTERIOL., vol. 177, pages 774-782 1993		
AAK	A. ISHI et al.: "Genes encoding two isocitrate dehydrogenase isozymes of a psychrophilic bacterium, Vibrio sp. Strain ABE-1" J. BACTERIOL., vol. 175, pages 6873-6880 1993		
AAL	B.J. EIKMANN et al.: "Corynebacterium glutamicum lpd gene, complete CDS" GENBANK ACC. NO. Y16642 02/01/99		
AAM	E.R. BOERMANN et al.: "Molecular analysis of the Corynebacterium glutamicum gdh gene encoding glutamate dehydrogenase" MOL. MICROBIOL., vol. 6, pages 317-326 1992		
AAN	B.J. EIKMANN et al.: "Nucleotide sequence, expression and transcriptional analysis of the Corynebacterium glutamicum gltA gene encoding citrate synthase" MICROBIOLOGY, vol. 140, pages 1817-1828 1994		
AAO	M.A. PARDO et al.: "Nodulation ability of Rhizobium tropici is conditioned by plasmid-encoded citrate synthase" MOL. MICROBIOL., vol. 11, pages 315-321 1994		
Examiner		Date Considered	